U. S. DEPARTMENT OF AGRICULTURE BUREAU OF BIOLOGICAL SURVEY

Form Bi-689

FIELD DIARY

EA. Goldman

(Official title.)

Period June 12 to June 26, 1924

Montana Absorption This book is Government property. The finder is requested to mail it to the Bureau of Biological Survey, Department of Agriculture; Washington, D. C., or deliver it to the official whose name appears above. A detachable addressed frank will be found on the last page; by tying this on the cover the book may be mailed without post-

age or wrapping if fastened shut.

June 12, Galletine R.S., yel. Not. Park Continuel June previous took) all Fifteen or 20 olk were seen today in various places on the ourmers range on Fan Curch. In one buch of our adizer annuals consisting of cours and Jullo 4 calves were seen. Some of the cours are in the dark sleek Aumura coat and other still retain much of the will crop and have a politica appearance, Jubaby owing to the stup wearly unformly tenter character, but

June 12 con. Fan levek is moderately occupied by elk. Moode. Thre were sen loday in the wellows on the trood flat forming tirel. all were cours -2 logulur and anothers puhape a 1/4 mile away, They were watched feeling for some time, due was clearly seen browning willows and one officerd to be feeding on the course grand or aquatic orgitalin away the willows. This was at I P.M. a few the size and when I large Spreme Ch. in the words.

RS. yel. Not. Park. off of 830 a.m. and returned bure about 4, 30 (P.M) Kouts was up Baton Kind led. for several wills to a point where we found a trail and by elk extending up tillade on north orde of Banger. This we followed until it spread out in a beautiful grany area pure as the Burnt took section, Burnt Fork Just a branch by Baken Riva which wills the main campore rother lour down. Sie follound

June 13 con. the slope on up to ite top of a love bulge above tunter I live which extude across the head of Baren Rend Cak and drand the heads of Scrow Erels and Mountaint Cereps. From itos top me had excellent views of the Aurrounders country) 5) the Falletin Range, upper Galletin Rives, the Grayling took, the Vilor Brakes in the die distance for to the south and nearer the presentous Leads of Bacon Red and Snowthede terrely The relieve was across From Alle

June 13 cm. teruk congen and over a pass into the head of Monument Cek. Lour which we came and relieved to camp. Forage, Expellent nearly everywhere along the way way, but at the higher elevations had not yet grown much as the show had only receively welled off. Some elk graze un serenara apparente blove lender line, a few elk Along un wenter along Morreulit ak a part of the twice and elling the found some relitigation of willow.

June 13 con. Elk, a few rogus of cont cete and calver whe seen along the lower part of Bacon Ring where there is a brook beaver flat and the trail up to Burnt Fack county showed ceresduable time Several were teen in the edge of lunger to that they could not carry be counted in 2 places men in Berus Flat Aretica end 3 corne in another place in 8) there had that But betters vleoured a political offerance, On Burnt

June 13 cm. your of my parties of mixed wet lundin signs were tem of a considerable munder, and conflict were noted in ternal places. Many D, Phite signs were well up the stope not far frem eta locum idge of la Awall remaining Acrem boule where forage was furk and green, Juh short owing to les True period during which if that been rune overal. a thind have and a few old signs were seen on the remine

June 13 con. above tenter line and if sens probable elect a few range wp theirs in late Aumun allhough that does not account you the ofed hom. The is both on us widered that ilk crow the tryle pass to Social al eto head of Barre Read, an the relien routo across Suowoolada levek me followed a going trail which is no doubt part of a formerly well travelled fout across a paro un tos viently 8% the rulgs Junean et works of

June 13 con Snowlede and Monument leneks. But there is little use of this trail / nemery. now howen, all through this section, a fewerk also range at prepuet. and are said to have ranged all wereling within a mile of nelson Slory Ju, Hace on Monument Cerest, It Deenes very clear that the presunt huding in this rection privult a former moroticis across & Boge Bruk.

Galletine River, Gel. Wat, Off of 10,30 am, Harris how strayed. Made camp about 6 P.M. Routs along Faun Par trail from Falletin Da to lot of Para there wix the hunter we dropped Valley was where it breaker preceptions along Ander about 3 miles belover facen Parts. Trail astended grandwhich is a soldle near truber line af about 9 000 ft, Most of xnow

June 14 con, had melter but their were still swall Farage My good along most of way, but at the higher elevations has not get had time to wake much growth and is Seins considerably wellight by the elk which veren to be pretty generally distributed Tome brown & Tymphonicarfus on & was noted. Telk about 26 her & of elle were sen in Harrow places, to large of Burch consisting 52 about 16 head about jly of which were bull ,

June 14 cm. In the evening elk were out in the Holling within aly of a mile above and below camp, Que stood watchez was for some time from the edge of the lunder. all elk seels were in good Condition, Jone are in summer coal and octure still areun rogged pelage. anumber & large Diello dreve sem Soul with growing homes at least 2 gt, love of the higher livels are wells. Ho calout were sem on to

June /4 con. a few hacks and what. The elk are evidently following the modernt show clostely, but do not range much off the trail in the Part Many loves were seen gon both trate across the Vass. Trails from the Halletin Converge toward the wow trail suns north Just wast of eta Pass the ets stellaris like. dramage;

June 15 (Sum), Hear Byhow Pare Jel. Not. Park. Off of 830 a.m. - asended by head up to clatic Riv. to Bylow Paro. The Para is very narrow los Than allquele bet. purplan bluffe, du ita east onde to Vary opius un a boom puhape a mule veroos, and on they week ande in the rate broad gradually sloping Fallitin Rues eta Aloperanto wevery near to heard which is the little Hallitan loke of the foot of 3 Kning Proh. leamped on Partherlek, Pars. Weather clear, warm and fine.

June 15 con. Forage, Sums Whorter them at similarly low elevations on the with range of der. Whicher this is due to dryer conditions or to elk utilization I am not gut sure along Vanetus breek there is considerable utilization of wellow, and it way be stor down ich wenter here. Long of the willow brown is, however no doubt by more which ocen here. Elk, Sun in armada of places today, Rock cows and gullo, and a few eaf hacks were sur along Parthu let. Hear Buff appur Galletin is fairly well occupied by It In Righon Pass Jush hocks were sem of a swall funch at least that dock give though from week to was Just though the Pass on the east side we, met a truck of about a digue were evidently headed for by no would offamily have give though fun eachto west. There were I am inchand to blunk Hardwin elk, an ich trail was seen with my glasses knowing across from near The Pars, along the Halletin bage of the hulls on River boding towned a part about as high as Bigho across to the traying west of thre Row Viak. In this for I could are a trail

June 15 con. Moore. a few signs not willows and fir trudin alon Paretur Oh, and wellows considually howard in The vienity.

Jel. not. Pack Wyo. Just levek and opertual the Eastern foothills of the Falletin Mil. turning northward up the Vaun ak. and Fordier Cek. wollys He rode for owned suly The Tounter Comput of Solows the four Past trail east to Gillowolono Parks of run our camp near where Panther ak. emerge from to country largely grandland extending east formula. The familiary and the framely Joint where the latter inter it and the flow through

June 16 con. a beautiful rolling country where thethe volling on where one interrupted in places by willing help. and rolling hells along its east have of Hollatin mos and offered shorter googed than the Gallatin Vally across the mountains Some of the southern expose are pricely inturedy grand in winter Soil is apparent not so good as on its western orde of the war. Some stilization of wellow was noted and It is probable that some up wenter in the Eck, a considerable much

was seen in the little basin take valleys and on soling hiels along tho east bank of the Fallatin Mis. 15 head mostly cows But wolveding in one bunch in an ofen meadow before they saw no or predime alanded, Time small calves were samboling about near their mothers. They sien much like swall calves of downtie block, tolling ordling this way and that and water sudden turns week had body weaushely Homewhat lowers, Many hailo wie sun convergil lowerd four lavo.

June 17 (ve) yelowson Park Wys. acteding to routine wasters June 18 Oded.), Goody Wys. Jeff yellowsline Park at 530 Mr. Smit and were later by auto by Mr. Ho M, albright to leady where we arrived about 5:00 P.M. This gave us an opportunity to Die something of the dronders of twie of game conditions. Rachford Alafford of at Wapili KS, on et Thorhone naf. faurt but Suit and I continued to leady.

Jame 19 Thurs ! Wapite R.S. Shorhone not, Facest, Wyo, Fiffleody about 7 all and with Mh. albright in his auto and reached this place about 9am. Horses were realy and we left at once on a ride over etto range of the eck on this fourt. We found by the fourt Supervisor Mr. Langworthy and Rangus Longlas and Spencer, Ele rode up Elk Fork of the north fork of the Thorhone River a short distance and lumed up a swall branch culing from the left and Ture out and up along tack to etis base of the holis was

June 19 con. still some snowlying in defend route of a Loroge The range & sto) Thoshone ilk is a sleet country. much of it well shelling and favely well grassed. The soil is loose and grable, however, ork its surface in less completely covered than on the Fallalin ranges. The areas along the Strockerse and Elk fork thop are heavily utilized in wester, however show good veoring from inturviewe, the and vigorous the tava protected. There is an

Jun 19 cm areas utilized in stummer. The recently left to town median livils and any said to spiral most of the Aummen togh up man to Leads of the Alleans, But do not cross the tresh wouldn't to any great extents. Elk Sweal were sum on a high ridge to far away delemme whiches cows or Julla, Kanger estimate foo or 900 on Elk took and vicinity. Ranger offucer our there is some interingling of och across the bol of Ell Took with the Thorofare country and across the bead of Engle lerek, and Mr. Tangworty says Felowston ich cross to alinto

which in buins Spiner Days that after the hunting season That elk cross to the north Like of the Hwshere and some some will beyond the gang preverse borders where the forage is fairly good. In sum ilk range for back Thoughout to Howhere walnot but writer wantly in the lower four of the telk fork woluther, at Jones Pass Spences says a few cross also after cross of hest of Favor, Done ilk believed to cross from Elk Fork own Wapite Rolge to Tout fack of therhere via gellow &k, Spenen says whe Thorofore and way closel and and opened forether

west that this was a noticeall dift up apur Vally from Thorofare across & had of tell Fack. Tolal estimon In Shohere elk in North 1923 is 1390, about 35 elk mostly old bulls and colors heavely infitted with lite. rebout 35 were killed by hunter. Der. about 30 certains of der believe to hove be folled by coyota me found this opinion 1000 of den accupy the general area Spenden Coyota bane hun vem in packs of a digen logether.

y ... Nat. Park. Yellowstone Park, Fift Wapite R.S. about 10,30 and reached gillowstens Park Chammon (camp) obout 10.30 PM. Ranger Spencer took Juick, Rachford and I to Agloren For the Park enhances sant of Tyloan Pass in his car and this we caught one of the egclow busin of the Gillowstone Transfortation les. to yellowstone bamp, where we arrived about 6 P.M. There we were and met by they Ravger I. Wooding about IPM, and were loken Her remaring 31 miles to Mammoth Camp. We had a very pleasant trip and saw one Too ick near Foke Jellowsten and

June 20 com Hereral small burshes all in Aumur pelage, but us calves were noted, June 21 (Sat.) Nower field RS. Moning sput in preparation for a trip northeast out of this bank to eto absanka Laurt to cover conditions on the southern slope of the Baulder Dunde. Off of 1.30 P.M. and reached Tower Falls R.S. about 6 P.M. Followed etro man road across a part of the our cally Black Vail range formuly und as a horter parties o _ course fairly good, but

June 21 cox ben always of least in to park. In wany places of thouse the first of the dry weather that has been general The area opporting newed less row and owner Thom the Fallatin country, but unpresen me as bin in most places beller covered with a duper. Hand Ef gross. There is much Joroge un ila Hollatini country for more of it seems to me to be huborous. Hang of the aspens along election to way are scarned by elk, party by quawing But much fact by mitting.

growe of con, the way but this seture is hundred leptons only. Errors. a black hear come working along the belonde wetter about 150 yels. 8/ to Statem about 7 o'clock, Brans have nevery firm houterome in trying to get of food at a road camp was too station recently are of the men set a swork of hapfund dog on its bear. The dog Brasked at the fear but was not very auxets hear moved off delife entity look of Fork becommely. yourtag a bear tried to force his way wto a color by serotating of the door, with

door the war was ready to come on in Juhas be los eribd it fill backword off the parch when rappel on to nove with a short iron Son and soon shuffled of Met Mr. J. E. Martin, Fourt Supervisor from Lungolin and Rouger Johnson who are to accompany no on our tup. (Sum.) June 22 Slovelich. R.S. Off af & So a. M. amund here about 130 PM. - 27 min. Rout was across fellowland Ruens and up Houghter. The vally of Flough Cer. is rather Hool fengelis country vary of June a

for hunder youls to own back a mile Park way who we passed the grassy bottom where oureal hundred has of boy are carbank fed bu what to elk. Mit are fairly step and rocky on fort rules, at one point above to hay sauches an old land slike from the left where the face of the mountain became delathed reached part ropy across the wally. Harage Grass a good of start and generally good yeept in Ha Fatra Vally where it shows effetto of rather beauty grazing. This was grazel

June 22 can by dimedie Hock in the part and has apparent never July recound, It is also much grand by edfallow. defens end lødgefolg film enforcables forger one are very vorrighely dawaged in fact this is little on us reproduction along the vally man the koy rawhet where hay in fed in well. Willow bloom hard life. Eelk, Darfunbur and a few liacks of selions noted One calf was anlelope Stud your in one place and Zin anortur,

Moore Tracks aling slaugh left, man R.S. RS. 23 (Mon.) Sloughlak. Off at bam; returne at 6 MM. to same camp, -30 mm. Rosts today was up the ridge beliver Foot lek. and Wolverine ak, et neit branch of stoughtek, intering from the east for several miles and thus turnel down wto Wolourn tek Canyon and followed box up to its head in the food head a stillwater Rive. Eve Then Clarked Pease Int. which extraly well above temper line, Item returned to the Pass mentioned and soring

around to the east of Peace, My along the edge of Stillwater Vally to Lake abundance in a Japa abundance &k. from the Stillwaler dramage, We then desended John abundancelek to Horghest. and returned to the Station, Much of the country is tunbered and the general area is high But elusi are some of ingloses expreially along xhours affordingt considerable grows sal wied, forage, There is leeve foroge in the but The considerable Jorage where the lunter is lodgepole pine af Douglas Fix. Wonderful views were

June 23 con had of the surrounding mountains from the top of Present. I do not remember ever to have box June mountain views from one point. We were com pletity ourrounded by horizon peaks clod in partially welled survey, largely above linker live the lines of snow allowedy with bare ground druging them out in Atrikung contrast. Cent-off mt. on am right as we ascended the vally of Wolvering lek. presented a particularly striking affectioned,
foroge The entire area covered loday was there rough, raiter closely cropped

June 23 cm. I judged, But perhaps not overgrazed as there is a good stand of grand and eoning up. My title myses Elk Tracks were sun of med in working pass various places area. The mondown wall along the Park boundary from Flough lek, our though but off mt to the Par at the head of Wolverne Ch. ocus to form an effective Barrier for cek. moore, a few organs sem on good Wolverie ord Jake abundence levets.

June 23 can, Caston Que kelled near the head I Walverine Bk. was first som walking about in a grotty glade It stomach contained about a.g. of negelatte fragment willuding what appeared to be about 2 tables poonfuls of the inner back & loogyple Jome, various buts and grans. Moore Moore ogur service twampy spoke Pen Juna De to hack of Fate Obuntaria Uh 19M. Shup. There some By Rockford on Prave Who

June 24 Buffals Fack R.B. off of 7.30 a. 74; arrive of the 1230 PM - Dist. 12 mi. Route was across Slough Ok. and up to rulge south & west of Bull tok. to to top of a rulge ahabant 9000 ft. at eth had of Bulllek. Then down a sudo Canyon to its R.S. on Duffals Fork, ascended rector stoply nearly all its way through tubin but open glades offen in places torogs an abudust growt of dwarf henryouskle, and some other sweet structed and hubocomo vegetation in to lumbin out to the higher elistions recently band of anow where almost northing be at bast July 15 before much

June 24 con, garage will be available for game or for they or the higher elevations targe oday on the ava closel to domestic stock is much belte. chan yesterday on areas grazed by oheep. He had very fine views the summer du view of wall as Jan as to Pelok and Indays meto. across to Wys, line earl of the Park and to Three Rever juf. in the Hollatins. Bek a fur hacks sun along iles hail up the voge. Moose, a much of heater on trail of rulge In afternoon madelup to Holdin Foke about 3 miles down to vally below the sta.

June 24 com the hill pule believe what is probably an old land stode. Elk. Thursday Ayry Dem along vally bottom and = Moore. a good weing wifes aling racky reliew statum farme Willows Trown muste only indicates that Ik do not with in sumbus hue. Rangu Johnson says a few fell ich sunte in the general area.

June 25 (W.d.) Hellroaning Off of 7.30 am; weeld Hellowing R.S. about 4P.M. Route lodg was arvos Buffals tack at up a ridge to the top of Hunningbird Peak near elso had of sall lek and along a redge nout until blooked by snow We turned back I took eter trail down to xlope to Hell Roany R.J. forage. Good on lower Alogue, but on too bigher ologue where onou has neverty welled it has not get started to grow. Ech. a for rigue of ech and were sun as high as near Tilephone Barn which is seem rage for a few only. Anda few signs of ech were seemon its

June 25 Hellroding slope. It is under stof fur elk range in the area, afracem wear the slabing Moore. a bull was run by Furth in desculoy to Hell Roany & Le 87 etc. riege we cross I and harty your servin a mucho of place, willing the muchod Deer & number of leather were Rem and it sums probable hot they are not mucoumer in the grand area traverole

June 2/2 Hell Roany R.D. loff of 7,30 am. and returned tawe station at 8,00 PM Kout was of radge east of Hell Roany to woddle tackwhich was crotted above it mouth and we turned up what took for a short distance to a calin on the shuf gray lava. Then aross Kell Roaring and Dock down the rudge on the week orter of the level waterful gate. West up W. Fork to last weadows Foregr. Very good at the lower elevations on closed and, but on obey ground area forming closely eropped. tell Very for segus Tracks of one noted on shop grayed and or feets on west fork

of Hell Roaning a thort distance about went. My Line Tracker of one vem on West took of Hell Roany Bk. Type . Trocks of one our on W. fork of bell Roany lek. Canix One sem near fell-Roaming RS. and harter of one seen on W. Fork of Hell Roans Certallus colunt. a few accen belver near Hel Roan RS.
Thomores Rey to to ?? highest not. Throw out dist which rimens as ob volges after our is gone, then apparently runan machine for considerable times!

Dell 20 - Mentions - 1924

UNITED STATES DEPARTMENT OF AGRICULTURE BUREAU OF BIOLOGICAL SURVEY.

WASHINGTON.

OFFICIAL BUSINESS.

U.S. Department of Agriculture,

Bureau of Biological Survey.

Washington, D. C.

Prany - Park Rangers - Fame Devidory around; It will Distance travelled and condition Troval Grage conditions, Elk (of wall allulum) Harmon Tital number seem. "o Bulls, cours, as los un reparate Burchy. Justeen de tim; for on lean? In or muter coot? Is, of bulls with and without homes? Temdeten of hours: In vellet? Tocalities Souvered! Dinder? apon Joseph Brazing a Drowsing on not so northern or souther ological planting plant favored, Browsing or pur on willow and if so to what extent?

Con from preseding p any undere of drift, giving du it in and expet locality. on accuse our les ender of the good, (For the descessing of wellow level the growt of the prineding year? Pors 100 godoweng fund own an or only work to furtwis of are any dood annuals found frufest a week traks and y so to other extent? Organis of L Cerus of death, Predalog annal our. avy enduce of offer or game,

Frat Pence 810-900 955 - 1545 - Man. 19/8 - (Comb) and estimabel 1500 350 122 tilled along used m Cast 1919 3000 at some time a few den come derunearly to far fully a truly put and about 200 with this Fort of a complemen Jul 80 pm / impall cont on Peter forest in Gol, Perhaps Hacmorrhan soft, which was in country any courts.